

ABSTRACT OF THE DISCLOSURE

Novel multi-binding compounds (agents) are disclosed which bind cell membrane transporters including ion channels, molecular transporters and ion pumps. The compounds of this invention comprise from 2 to 10 ligands each of which can bind to such cellular transporters to modulate the biological processes/functions thereof.

5 Each of the ligands is covalently attached to a linker (framework) to provide for a multi-binding compound. The linker is selected such that the multi-binding compound exhibits increased modulation of the biological processes/functions of the transporter as compared to the aggregate of the individual ligand units made available for binding to the transporter.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100